Journal of Surgical Oncology

Table of Contents

Volume 84, Number 1, September 2003

Guest Editorial: Surgical Considerations With Lung Cancer Screening
Elizabeth E. Warner and James L. Mulshine 1

Primary Malignant Melanoma of the Lip
Anthony J. Froix and George I. Salti 7
The factors relating to prognosis of lip melanoma were evaluated. Prognostic factors influencing cutaneous melanoma may be similarly influencing lip melanoma.

Clinical Benefit of Chemosensitivity Test for Patients With Regional Lymph Node–Positive Esophageal Squamous Cell Carcinoma
Mikihito Nakamori, Makoto Iwahashi, Masaki Nakamura, and Hiroki Yamaue 10
Postoperative chemotherapy according to the results of chemosensitivity test appears to enable prediction in patients with regional lymph node positive esophageal squamous cell carcinoma.

Decreased Expression of Human Papillomavirus E2 Protein and Transforming Growth Factor-β1 in Human Cervical Neoplasia as an Early Marker in Carcinogenesis
Pao-Ling Torng, Wing-Yee Chan, Chin-Tang Lin, and Su-Cheng Huang 17
Cervical intraepithelial neoplasm showed significant loss of TGF-β1 protein expression during tumor progression from cervical intraepithelial neoplasia to carcinoma. Loss of TGF-β1 was in parallel with loss of HPV-16 E2 expression, and could be used as an early marker indicated in cervical cancer progression.

A New Proliferation Marker, Minichromosome Maintenance Protein 2, Is Associated With Tumor Aggressiveness in Esophageal Squamous Cell Carcinoma
Hiroyuki Kato, Tatsuya Miyazaki, Yasuyuki Fukai, Masanobu Nakajima, Makoto Sohda, Junko Takita, Norihiro Masuda, Minoru Fukuchi, Ryokuhei Manda, Hitoshi Ojima, Katsuhiko Tsukada, Takayuki Asao, and Hiroyuki Kuwano 24
In human esophageal squamous cell carcinoma, minichromosome maintenance protein 2 (MCM2) may be a more reliable marker than Ki-67. It may be useful for assessing the growth of normal and tumor cells and for evaluating tumor aggressiveness and prognostic value.

Micronutrients, Antioxidants, and Carcinoma of the Gallbladder
Vijay Kumar Shukla, Tarun Kumar Adukia, Sureshwer Prasad Singh, Chandra Pati Mishra, and Ravindra Nath Mishra 31
Lower levels of micronutrients and antioxidants are examined for significant association with gallbladder cancer.

New Considerations for an Overall Approach to Treat Hepatocellular Carcinoma in Cirrhotic Patients
Vincent Donckier, Jean Luc Van Laethem, Daniel Van Gansbeke, Brigitte Ickx, Pierre Lingier, Jean Closset, Issam El Nakadi, Pascale Feron, Nathalie Boon, Nadine Bourgeois, Michael Adler, and Michel Gelin 36
Recent data in the treatment of HCC are reviewed and algorithms proposed for multidisciplinary treatment.

Commentary
Walter Lawrence, Jr. 44

How I Do It: Cholecystectomy, Lesser Omentectomy, and Stripping of the Omental Bursa: A Peritonectomy Procedure
Vinicius de Lima Vazquez and Paul H. Sugarbaker 45

How I Do It: Staging Laparoscopy in Gastric Cancer: A Single Port Method
Jun Ho Lee, Keun Won Ryu, Young Woo Kim, and Jae Moon Bae 50

Volume 84, Number 2, October 2003

Guest Editorial: The Impact of Physician and Hospital Volume on the Quality of Surgical Outcomes
Harry D. Bear and Walter Lawrence, Jr. 53

Guest Editorial: Breast Conserving Therapy: Who and Why?
Monica Morrow 55

Breast Conservation Therapy Rates Are No Different in Medically Indigent Versus Insured Patients With Early Stage Breast Cancer
Maryam Parviz, Jay Brian Cassel, Brian J. Kaplan, Stephen E. Karp, James P. Neifeld, Lynne T. Penberthy, and Harry D. Bear 57
Retrospective review of a single institution's experience with treatment of early stage breast cancer was conducted comparing the rates of breast conservation therapy to mastectomy. Factors analyzed include patient age, race, insurance status, disease stage, year of diagnosis, treating surgeon, and access to a radiation therapy facility.

Sentinel Lymph Node Biopsy in Breast Cancer Patients After Neoadjuvant Chemotherapy
Roland Reitsamer, Florentia Peintinger, Lukas Rettenbacher, and Eva Prokop 63
The accuracy of sentinel lymph node biopsy (SLNB) after neoadjuvant chemotherapy is similar to patients with primary surgery. SLNB could be an alternative to axillary lymph node dissection (ALND) in a subgroup of patients after neoadjuvant chemotherapy.

The Feasibility of Intraoperative Diagnosis of Sentinel Lymph Node Metastases in Breast Cancer
Marjut Hannele Kristiina Leidenius, Leena Anneli Krogerus, Terttu Sinikka Toivonen, and Karl Johan Albert von Smitten 68
The feasibility of intraoperative assessment of sentinel lymph nodes in breast cancer was evaluated in detail in a prospective, observational study. Intraoperative examination of sentinel lymph nodes seems to be useful, because it enables breast surgery, axillary staging, and treatment during the same operation in a substantial proportion of breast cancer patients.

Differential Diagnosis of Gallbladder Cancer Using Positron Emission Tomography With Fluorine-18-Labeled Fluoro-Deoxyglucose (FDG-PET)
Toshimori Koh, Hiroki Taniguchi, Akihiro Yamaguchi, Satoshi Kunishima, and Hisakazu Yamagishi 74
We performed PET studies of gallbladder tumors with fluorine-18-labeled fluoro-deoxyglucose (FDG) in order to predict the malignancy of these tumors preoperatively. FDG-PET may be useful for evaluating the malignancy of gallbladder tumors.

Absence of HER2 Overexpression in Metastatic Malignant Melanoma
J. Lucas Inman, Tim Kute, Wain White, Mark Pettenati, and Edward A. Levine 82
The incidence of HER2 protein overexpression and HER2 gene amplification in metastatic malignant melanoma is examined.

Immunohistochemical Study of Protein Induced by Vitamin K Absence or Antagonist II in Hepatocellular Carcinoma
Hideyuki Ajisaka, Koichi Shimizu, and Koichi Miwa 89
The correlation between tissue PIVKA-II expression and clinicopathological characteristics was immunohistochemically investigated in patients with hepatocellular carcinoma. The tissue PIVKA-II status was found to correlate significantly with vascular infiltration and tumor stage. Tissue-PIVKA-II-positive patients showed a lower rate of overall survival.

Minimally Invasive Surgery for Small Breast Cancer
Masakuni Noguchi 94
Feasibility of minimally invasive techniques for breast cancer is reviewed and discussed.

Commentary
Edward R. Sauter 102

How I Do It: Extra-Oral Knotting of Tie-Over Sutures: A Novel Technique to Bolster the Split Thickness Skin Graft for a Buccal Mucosal Defect
Pankaj Chaturvedi, Prathamesh S. Pai, Anil K. Decruz, Kumar A. Pathak, Devendra A. Chaukar, Mandar S. Deshpande, and Shishir Shetty 103

How I Do It: Dual Technique for Preoperative Localisation of Non-Palpable Breast Lesions
Asha Adwani and Susan Lowe 105

Volume 84, Number 3, November 2003

Guest Editorial: Surgical Quality Assurance in Breast, Gastric and Rectal Cancer
Koen C.M.J. Peeters and Cornelis J.H. van de Velde 107

Guest Editorial: The Potential of Non-Steroidal Anti-Inflammatory Drugs (NSAIDs) for Colorectal Cancer Prevention
Monica M. Bertagnolli 113

Impact of Lymph Node Retrieval and Pathological Ultra-Staging on the Prognosis of Stage II Colon Cancer
Calvin H.L. Law, Frances C. Wright, Theodore Rapanos, Mohamed Alzahrani, Sherif S. Hanna, Mahmoud Khalifa, and Andrew J. Smith 120
Inadequate lymph node retrieval was associated with poor overall and disease free survival in this population of node negative colon cancer patients. Further ultra-staging by re-examination of specimens for lymphovascular invasion and step sectioning of lymph nodes for micrometastases did not help identify patients with poorer prognosis.

Prospective Evaluation of Prognostic Factors in Patients With Colorectal Cancer Undergoing Curative Resection
Shin Fujita, Tadakazu Shimoda, Kimio Yoshimura, Seiichiro Yamamoto, Takayuki Akasu, and Yoshihiro Moriya 127
Perineural invasion was a significant prognostic factor in both rectal and colon cancer patients. Perineural invasion status can be used to facilitate appropriate patient selection for adjuvant chemotherapy of colorectal cancer and should be described in routine pathology reports.

Mortality for Gastric Cancer in Elderly Patients
Teruo Eguchi, Masashi Fujii, and Tadatoshi Takayama 132
The aim of this study was to clarify the surgical outcome in elderly patients with gastric cancer. In elderly patients, the reason for the poor prognosis is the high rate of advanced stage and the high rate of death due to other diseases.

Effects of Major Liver Resection, With or Without Recombinant Bactericidal/Permeability-Increasing Protein ($rBPI_{21}$), on the Angiogenic Profile of Patients With Metastatic Colorectal Carcinoma
Francis P.K. Wu, Petra G. Boelens, Paul A.M. van Leeuwen, Klaas Hoekman, Annemarie H.G. Hansma, Marinus J. Wiezer, Catharina Meijer, Sybren Meijer, Michel Scotté, and Miguel A. Cuesta 137
Major liver surgery induced an immediate immune response, reflected in a strong IL-6 response within hours, and an immediate angiogenic response, reflected in a paradoxical decrease of VEGF, and a decrease of endostatin. These findings demonstrate the dynamics of tissue responses in the first phase of wound healing.

Inactivation of *p16^{INK4a}* by CpG Hypermethylation Is not a Frequent Event in Colorectal Cancer
Mark W.A. Norrie, Nicholas J. Hawkins, Alison V. Todd, Alan P. Meagher, Terence W. O'Connor, and Robyn L. Ward 143
Methylation of the $p16^{INK4a}$ promoter methylation occurs in 25% of sporadic colorectal cancer yet infrequently results in transcriptional silencing. Inactivation of the $p16^{INK4a}$ gene is not important in the pathogenesis of sporadic colorectal cancer.

Cytokine and Cytokine Receptor Serum Levels in Adult Bone Sarcoma Patients: Correlations With Local Tumor Extent and Prognosis
Piotr Rutkowski, Janina Kamińska, Maria Kowalska, Wlodzimierz Ruka, and Jan Steffen 151
The results of the study showed that serum levels of proinflammatory, hematopoietic and proangiogenic cytokines as well as of some cytokine inhibitors and antagonists, both involved in bone resorption and bone formation, are elevated, frequently in parallel, in patients with bone sarcomas.

Application of ^{99m}Tc Labeled Chimeric Fab Fragments of Monoclonal Antibody A7 for Immunoscintigraphy of Pancreatic Carcinoma
Eigo Otsuji, Hiroomi Matsumura, Kazuma Okamoto, Atsushi Toma, Yoshiaki Kuriu, Daisuke Ichikawa, Akeo Hagiwara, and Hisakazu Yamagishi 160
The tumor accumulation of ^{99m}Tc-labeled chimeric Fab fragments of Mab A7 (chA7Fab) was larger than that of ^{99m}Tc-labeled A7 from 2 to 6 hr after injection and ^{99m}Tc-labeled chA7Fab disappeared from blood more rapidly than ^{99m}Tc-labeled A7. Because the half-life of ^{99m}Tc is short (6 hr), chA7Fab may be a better carrier of ^{99m}Tc than intact Mab A7.

Expression of PTEN in Renal Cell Carcinoma and Its Relation to Tumor Behavior and Growth
Ji Shin Lee, Hyung Seok Kim, Young Bok Kim, Min Cheol Lee, and Chang Soo Park 166
The PTEN gene seems to be important for the growth suppression of renal cell carcinoma, by inhibiting cell proliferation.

International Issues: Emerging Patterns of Practice in the Implementation and Application of Sentinel Lymph Node Biopsy in Breast Cancer Patients in Japan
Tadashi Ikeda, Hiromitsu Jinno, Yuko Kitagawa, and Masaki Kitajima 173

How I Do It: Precision Handling of the Sentinel Node
S. Sampath, C.L.F. Temple, and W.J. Temple 176

How I Do It: Flank Incision for Adenocarcinoma of the Splenic Flexure in the Obese
Mahmoud N. Kulaylat and Constantine P. Karakousis 178

Volume 84, Number 4, December 2003

Guest Editorial: Clinical Research in Surgery: The Role of the American College of Surgeons Oncology Group
Samuel A. Wells Jr. 181

Guest Editorial: Accelerated Partial Breast Irradiation: A Change in Treatment Paradigm for Early Stage Breast Cancer
Douglas Arthur 185

Randomized Trial Comparing Neo-Adjuvant Versus Adjuvant Chemotherapy in Operable Locally Advanced Breast Cancer (T4b N0-2 M0)
S.V.S. Deo, Manisha Bhutani, Nootan K. Shukla, Vinod Raina, Goura K. Rath, and Joydeep Purkayasth 192

Large Segment Allograft Survival is Improved With Intramedullary Cement
Craig H. Gerrand, Anthony M. Griffin, Aileen M. Davis, Allan E. Gross, Robert S. Bell, and Jay S. Wunder 198
This paper describes a technique for reinforcing large segment allografts used in tumour reconstruction with intramedullary methylmethacrylate cement. The results in a series of 45 patients suggest that this technique is associated with improved allograft survival due to a decreased risk of fracture.

High Incidence of Urinary Bladder Involvement in Carcinomas of the Sigmoid and Rectum: A Retrospective Review of 580 Patients With Colorectal Carcinoma
Takashi Kobayashi, Toshiyuki Kamoto, Yoshio Sugino, Hideo Takeuchi, Tomonori Habuchi, and Osamu Ogawa 209
Significantly higher incidence of bladder involvement in carcinomas of the sigmoid and rectum compared with other segments of the colon was found in a retrospective review of 580 patients with colorectal carcinoma including 17 (2.9%) patients in which the cancers involved the urinary bladder. Routine preoperative studies were useful for the diagnosis of bladder involvement but not for prediction of the pathological invasion or the necessity for total cystectomy.

[F-18] Fluorodeoxyglucose Positron Emission Tomography as a Tool for Early Recognition of Incomplete Tumor Destruction After Radiofrequency Ablation for Liver Metastases
Vincent Donckier, Jean Luc Van Laethem, Serge Goldman, Daniel Van Gansbeke, Pascale Feron, Brigitte Ickx, David Wikler, and Michel Gelin 215
FDG-PET scan accurately detects residual tumor, not visible on CT scan, in the early postoperative period after radiofrequency ablation for liver metastases. This information could be crucial to indicate rapid retreatment or adjuvant therapy and to precisely evaluate the real efficacy of the radiofrequency technology.

Prognostic Value of Intratumoral $CD8^+$ T Lymphocyte in Extrahepatic Bile Duct Carcinoma as Essential Immune Response
Taro Oshikiri, Masaki Miyamoto, Toshiaki Shichinohe, Masato Suzuoki, Kei Hiraoka, Yoshihiro Nakakubo, Toshiya Shinohara, Tomoo Itoh, Satoshi Kondo, and Hiroyuki Katoh 224
The infiltration of a cancer cell nest by $CD8^+$ T cells is a reliable marker predicting increased survival of patients with EBDC.

Case Report: Malignant Melanoma Developing in an Area of Hereditary Palmoplantar Keratoderma (Mal De Meleda)
Nicola Mozzillo, Carmine A. Nunziata, Corrado Caracò, Flavio Fazioli, and Gerardo Botti (Melanoma Cooperative Group) 229

Review Article: The Evolution of Lung Cancer Screening
Neal W. Wilkinson, Gregory M. Loewen, Donald L. Klippenstein, Alan M. Litwin, and Timothy M. Anderson 234

Review Article: Tumor Markers and Colorectal Cancer: Utility in Management
Nigel P.S. Crawford, Daniel W. Colliver, and Susan Galandiuk 239

How I Do It: A New Proposal of Skin-Closure System for Median Sternotomy: Usefulness and Cosmetic Results Analysis of Medizip™ Surgical Zipper in Neoplastic Immuno-Compromised Patients
Pier Paolo Brega-Massone, Cosimo Lequaglie, Barbara Magnani, and Ignazio Cataldo 249

How I Do It: Sub-Mammary Approach for Pectoralis Major Myocutaneous Flap in Females
Pankaj Chaturvedi, Shirish G. Prabhudesai, Gajanan Kanitkar, Prathamesh S. Pai, and Anil K. D'Cruz 255

Author Index to Volume 84 257

Subject Index to Volume 84 259